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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/596,089	01/25/2007	Teruo Tamada	KYFW-1 US	1727
24222 7590 03/18/2008 Vern Maine & Associates		8 EXAMINER		
100 MAIN ST	REET	HERNANDEZ, MICHAEL		
P O BOX 344: NASHUA, NI			ART UNIT	PAPER NUMBER
			3612	
			MAIL DATE	DELIVERY MODE
			03/18/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	Applicant(s)		
10/596,089	TAMADA, TERUO			
Examiner	Art Unit			
MIKE HERNANDEZ	3612			

Onice Action Gammary	Examiner	Art Unit					
	MIKE HERNANDEZ	3612					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CPR 1.15 and 55 (1) MOVITHS from the mailing date of the communication. - Failure to roply within the size or extended period for roply will by statute. Any roply received by the Office later than three months after the mailing agenced patent term adjustment. See 37 CPR 1.70(4p).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim- till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. tely filed the mailing date of this of (35 U.S.C. § 133).	,				
Status							
Responsive to communication(s) filed on							
·- · · · · · · · · · · · · · · · · · ·	action is non-final.						
Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the	e merits is				
closed in accordance with the practice under E							
Disposition of Claims							
` <u> </u>							
4) Claim(s) <u>5-14</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed.							
6) Claim(s) 5-14 is/are rejected.							
7) Claim(s) is/are rejected.							
8) Claim(s) are subject to restriction and/or	alastian requirement						
o) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>30 May 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 119(a)	-(d) or (f)					
a) All b) Some * c) None of:							
1.⊠ Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	-		- 0				
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
-							
Attachment(s)							
1) Notice of References Cited (PTO-892)	Interview Summary Paper No(s) Mail De						

- Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (FTO/SE/DE)
 - Paper No(s)/Mail Date 7/10/07.
- 6) Other: _

5) Notice of Informal Patent Application

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DETAILED ACTION

 Note: Claims 1-4 have been cancelled in the preliminary amendment filed 5/30/2006. New claims 5-14 remain in the application.

Claim Objections

Claims 5, 6, and 7 are objected to because of the following informalities: The
claims recite "recessed groves". It is assumed the word 'groves' should read 'grooves',
as based on the wording in the specification. Appropriate correction is required.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 5, 9, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat No 5.033.593 to Kazuhito.

Regarding claim 5, Kazuhito shows (Fig 1) a vehicle shock absorber having first and second ends, said shock absorber comprising: opposing first and second walls (5); said first wall disposed apart from said second wall (distance H); a shock receiving surface (2) at said first end connecting said first and second walls; a plurality of recessed grooves (4) spaced substantially equally disposed in said first and second walls, and substantially perpendicular to said shock receiving surface; and said recessed grooves extending from said shock receiving surface to said second end.

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As to claim 9, Kazuhito shows first and second peripheral walls (2) connecting said first and second walls.

As to claim 14, Kazuhito shows the shock receiving surface has a first edge joined to said first wall, and a second edge joined to said second wall; a distance between said first and second edges being not greater than a length of said first edge.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhito

Kazuhito discloses a vehicle shock absorber as applied to claim 1 previously. It is an obvious engineering expedient to align the recessed grooves in an alternating orientation to tailor crush characteristics as desired or needed. Therefore it would have been obvious, given the device of Kazuhito to have a first groove disposed between second and third grooves on the opposite wall.

 Claims 7 and 10 through 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhito in view of US Pat No 5.382.051 to Glance.

Regarding claims 7 and 10, Kazuhito discloses a vehicle shock absorber as applied previously including semi-arc notches formed in the shock receiving surface by the recessed grooves. Kazuhito fails to disclose a parting line due to blow molding.

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Glance teaches a blow molded vehicle shock absorber. It is inherent that blow molded plastic will have a parting line, often accompanied by flash that is then removed.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device described by Kazuhito with a parting line created during blow molding, as taught by Glance, in order to control deformation characteristics. Additionally, Kazuhito discloses (Col 2 Ln 53-56) the recessed grooves are created by hydroforming. Hydroforming is similar to blow molding and would be an obvious alternative given the type of materials used, such as plastic by Glance.

As to claim 11, Glance teaches (Col 3 Ln 50-61) the shock absorber is thermoplastic.

As to claims 12 and 13, selecting the physical characteristics of the thermoplastic, as well as the composition, is an obvious modification given the material taught by Glance.

 Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhito in view of US Pat No 3,995,901 to Filbert, Jr. et al.

Kazuhito discloses a vehicle shock absorber as applied previously, however fails to disclose the shock absorber disposed between a bumper and a facia.

Filbert, Jr. et al. teaches (Fig 5) a vehicle shock absorber configured to be interposed between a bumper beam and a bumper facia, such that said shock receiving surface is disposed proximate said bumper facia.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device described by Kazuhito by being disposed Application/Control Number: 10/596,089

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between the bumper and the facia, as taught by Filbert, Jr. et al., in order to absorb frontal impacts.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The attached references show similar structure to the present invention including locations of vehicle shock absorbers within headliners, between bumper beams and facias, and within doors. The prior art also shows various forms of recessed grooves. Note that the use of foam may be an obvious alternative to using a sealed air cavity.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MIKE HERNANDEZ whose telephone number is (571)272-2354. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Dayoan can be reached on 571-272-6659. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dennis H. Pedder/ Primary Examiner, Art Unit 3612

/MIKE HERNANDEZ/ Examiner, Art Unit 3612